

AMENDMENTS TO THE CLAIMS

This listing of the claims will replace all prior versions and listings of the claims in this application.

Listing of the Claims:

1. (Currently amended) An arrangement for increasing the stress resistance of upper jaw bone implants arranged in an upper jaw bone (1), ~~characterized in that the~~ comprising: an implant has having a length (L) which requires that parts of the implant must be given access at parts (4, 4') to the a sinus cavity (5), in that wherein the implant, at said parts of the implant, is arranged with comprises a convex or rounded front surface (4, 4a) which, upon access to the sinus cavity, lifts the a sinus mucous membrane (6), without piercing the latter sinus mucous membrane, and thus forms a closed space (7) between the parts (4, 4') and the an underside of the mucous membrane, and in that wherein the implant is provided includes, at least at said parts of the implant, with at least one growth-stimulating substance(s) (15) substance which interact interacts with cell-containing body fluid (8) which has penetrated or is penetrating into the closed space, so that new bone (11) is formed around said parts of the implant and thereby increases the stress resistance .

2. (Currently amended) The arrangement ~~as claimed in patent of~~ claim 1, ~~characterized in that wherein~~ the convex or rounded front surface (4) and at least one contiguous outer surface (4') of the implant situated in the sinus are coated with layers of the at least one growth-stimulating substance or substances (15).

3. (Currently amended) The arrangement ~~as claimed in patent of~~ claim 2, ~~characterized in that wherein~~ at least sides of said convex or rounded front surface and contiguous outer surface (4a) are arranged with include a rough outer layers layer or a porous outer oxide layer(s) (14) layer functioning as a reservoir for said at least one growth-stimulating substance or substances.

4. (Currently amended) The arrangement ~~as claimed in patent of~~ claim 1, ~~2 or 3,~~ ~~characterized in that wherein~~ the implant (3) is made of titanium and is coated with the at least one growth-stimulating substance ~~or substances~~ along most of its said length (L).

5. (Currently amended) The arrangement ~~as claimed in any of patent claims 1-4 of~~ claim 1, ~~characterized in that wherein~~ the at least one growth-stimulating substance ~~or substances~~ are comprises one or more of the following: matrix molecules, growth factors, ~~and~~ differentiation factors ~~and/or~~ and peptides with growth-stimulating properties.

6. (Currently amended) The arrangement ~~as claimed in any of patent claims 1-5 of~~ claim 1, ~~characterized in that wherein~~ the implant is arranged in an upper jaw bone with reduced height (L').

7. (Currently amended) The arrangement ~~as claimed in any of patent claims 1-6 of~~ claim 1, ~~characterized in that wherein~~, in an initial stage, outer parts of the implant ~~is provided at its outer parts with~~ include a mechanical anchoring member (12) which can be connected on or at the an outer surface (1b) of the a jaw bone.

8. (Currently amended) The arrangement ~~as claimed in any of patent claims 1-7 of~~ claim 1, ~~characterized in that wherein~~ the implant can be given an anchoring which is dependent on the a degree of insertion (L-L') of the implant in the sinus, ~~where wherein~~, the a greater the degree of insertion, ~~the~~ provides a greater volume for the enclosed space (7) for body fluid and the interaction between the at least one growth-stimulating substance and the substances and the cells in the body fluid, which ~~means~~ provides a greater area of formation of new bone, ~~and vice versa.~~

9. (Currently amended) The arrangement ~~as claimed in any of patent claims 1-8 of~~ claim 1, ~~characterized in that it~~ wherein the arrangement comprises a member (20) which can be introduced into a jaw bone hole (2) extending from ~~the outside (1b)~~ an outer surface of the a jaw bone and opening into the sinus on the an underside of the sinus mucous membrane (6), ~~in that wherein~~, in the an inserted position below said underside of the sinus mucous membrane, the member is also designed to effect a at least one rotation movement as a function of a turning

action (22), ~~preferably of a manual type, and in that~~ wherein one or more front parts of the member are designed to pass in between ~~the~~ a boundary wall of the sinus or jaw bone and the ~~under side (6a)~~ underside of the mucous membrane and, upon said at least one rotation movement ~~or rotation movements~~, to free or release the sinus mucous membrane from the boundary wall.

10. (Currently amended) An implant ~~preferably made of titanium or ceramic, characterized in that it is arranged with~~ comprising a convex or rounded front surface (4) which is designed to cooperate with a sinus mucous membrane (6) in the sinus, via ~~the~~ an underside (6a) of the sinus mucous membrane, to form an enclosed space (7) between the implant and ~~the~~ an underside of the mucous membrane, ~~in that wherein~~ at least the front surface and the parts of the implant which penetrate or have penetrated into the sinus are coated with at least one growth-stimulating substance or substances arranged to interact with cell-containing body fluid (8) in order to form new bone around the front surface (4) and the parts of the implant which penetrate or have penetrated into the sinus (4').

11. (Currently amended) The implant ~~as claimed in patent of~~ claim 10, characterized in that the wherein sides of the front surface and said parts of the implant which penetrate or have penetrated into the sinus have ~~are designed with~~ a roughened outer surface (14) or porous outer oxide layer arranged to store said at least one growth-stimulating substance or substances.

12. (New) The implant of claim 10, wherein the implant is made of titanium or ceramic.